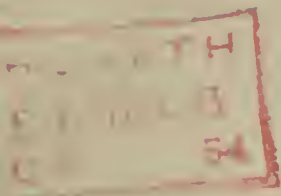


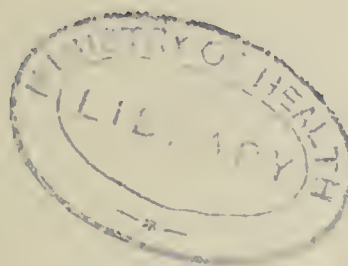
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THE URBAN DISTRICT COUNCIL OF FORTISHEAD

ANNUAL REPORT

OF



DR. D. W. BRUCE

FOR

YEAR ENDED

31st DECEMBER, 1952.



THE URBAN DISTRICT COUNCIL OF PORTISHEAD.

THE LODGE,  
WOODHILL ROAD,  
PORTISHEAD.

November, 1953.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR 1952.

To the Chairman and Members of the  
Urban District Council.

Gentlemen,

I beg to submit my Annual Report.

1. <u>POPULATION.</u>	<u>RATEABLE VALUE.</u>	<u>PRODUCT OF PENNY RATE.</u>
4,591.	£34,820.	£137. 10. 11.

2. BIRTH AND DEATH RATES.

Live Births.      Male    39.      Female.    42.

Still Births.      Male    2.      Female.    2.

Deaths of Infants under 1 year    3  
Still Births                            4

Births per 1,000      17.9  
Deaths per 1,000      12.8

Comparability Factors:-      Births      1.09  
   Deaths      0.79

3. INFECTIOUS DISEASES.

Measles	36
Meningococcal	1
Dysentery	2
Whooping Cough	22
Food Poisoning	3
Tuberculosis:-	
Respiratory	5
Non-Respiratory	2

4. DIPHTHERIA IMMUNISATION.

Primary - 58.      Reinforcing - 46.

Number of immune children - 746

VACCINATION:-      Primary - 56.      Revaccinated - 44.

5. EXPECTANT AND NURSING MOTHERS.

The arrangements work smoothly and well between Doctors and Nurses.

6. HOME NURSING SERVICE.

There are two District Nurses who provide a thoroughly efficient service.

7. WATER SUPPLY.

The public water supply provided by the Bristol Waterworks Company during 1952 was still taken from local sources. A copy of the chemical analysis taken on the 1st May 1952 is attached and this reveals the high degree of hardness of the water.

You will be aware that this source of supply has now been discontinued and very much softer water is now being supplied by the Company from Chelvey. This latter development will be dealt with in my report for 1953.

8. SEWERAGE AND SEWAGE DISPOSAL.

I would again call attention to the fact that with the rapid development of the District the capacity of the existing sewerage system is being severely taxed. The Consulting Engineers are still in the process of obtaining information necessary for the submission of a scheme to the Ministry of Housing and Local Government for the provision of storage capacity at the Esplanade and for a new outfall sewer at Battery Point. I feel sure that the Council will press forward with this project as soon as all the necessary information is available.

9. HOUSING.

I attach hereto a list showing Council owned houses up to the 31st December, 1952, from which it will be seen that the Council now own 202 houses. In addition to this, tenders have already been let for the provision of 90 houses to be built during the year 1953. Since the beginning of 1947, thirty-one private enterprise houses have also been constructed.

All new houses are being drained on the separate system, i.e. foul sewage to the foul sewers and surface water to surface water sewers and streams or rhines.

10. HOUSE REFUSE.

This work is carried out by direct labour and includes the collection of salvage materials and is very satisfactory. Owing to the new houses this work is naturally increased yearly.

11. MILK SUPPLIES.

There are 8 producers of milk within the District and the milk is collected by Messrs. Hornby's Dairies Ltd. of Bristol under The Milk Marketing Board. The number of Purveyors in the District is three.

12. ICE CREAM.

Only two of the twenty retailers make their own product. The premises are regularly inspected and complaints are dealt with at the time of the inspection if necessary. Prepacked ice cream is kept in refrigerators provided by the Wholesale firms and these are inspected regularly on each visit.

13. PREMISES WHERE FOOD IS PREPARED.

These are inspected regularly.

14. ATMOSPHERIC POLLUTION.

I attach hereto details of the atmospheric pollution prepared by the Bristol City Analyst on behalf of the Somerset County Council.

I should like to thank Mr. White, the Council's Engineer & Surveyor, for the items under Housing and the tabulated lists.

I am, Gentlemen,  
Your obedient Servant,  
D.W. BRUCE  
Medical Officer of Health.



SOMERSET COUNTY LABORATORY.COUNTY HALL,  
TAUNTON.

1st May 1952.

J.F.Davidson, O.B.E., M.B., Ch.B., D.P.H.,  
County Medical Officer of HealthE.T.Illing, B.Sc., F.R.I.C.,  
County Public Analyst.

Report of Chemical Analysis of sample of Water

Received on 28.4.52. from Mr.White, PortisheadLabelled Borehole, Bristol Road. Direct from borehole.

	(All results in parts per million)
Number of Sample.	C97
Physical Characters	Clear and Bright.
Reaction.	Very slightly alkaline. pH 7.2
Total Solids	1,752.0
Alkalinity (as Ca Co <sub>3</sub> )	305.0
Total Hardness	980.0
(a) Permanent	710.0
(b) Temporary	270.0
Chlorine (in terms of sodium Chloride)	230.0
Nitrogen as Saline and free Ammonia	nil.
" as Albuminoid	0.018
" as Nitrates	3.0
" as Nitrites	nil.
Oxygen absorbed from Permanganate (4 hrs. at 80° F).	0.2
Poisonous Metals	
Free Carbon Dioxide	13.0
Sediment	none

The sample is an extremely hard water containing very little organic impurity.

Signature. Edward T. Illing.

County Public Analyst.



HOUSES OWNED BY THE COUNCIL TO 31st DECEMBER, 1952.

SITUATION.	2B.	3B.	4B.	Prefabs. 2B.	Traditional.	Non- Traditional.	TOTAL.
37,38,39, Albert Road.	1	1	1		3		3
Milton Villas, South Road.		18			18		18
Glebe Villas, Bristol Road.			3		3		3
Glebe Road.		8			8		8
TOTAL BEFORE 1949	1	27	4		32		32
Station Road.		18			18		18
South Avenue.		12			12		12
Beach Road East.		10			10		10
Lower Down Road.		10			10		10
Severn Road.		10			10		10
Severn Road.	12	12	4			28	28
Channel View Road.		6			6		6
Channel View Crescent.		24	4		28		28
West Hill & Channel View.				20		20	20
West Hill Villas.		6			6		6
21 & 22, Albert Road.		2			2		2
Glebe Road.	12					12	12
Glebe Avenue.	4					4	4
Charlton View.		4			4		4
TOTAL COUNCIL HOUSES TO END OF 1952.	29	141	12	20	138	64	202
Private } To 31/12/51 Enterprise } 1952 houses. }	4 1	17 6	3				24 7
	5	23	3				31

TENANCIES.

	Single.	Double.	Treble.	
Requisitioned Houses by Council to end of 1952.	5	6	3	14

Total houses in the Urban District to 31st December, 1952 =

1,226.

H. R. H. WHITE.

Engineer & Surveyor.





PORTISHEAD ATMOSPHERIC POLLUTION.

1952

MONTHLY RESULTS.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
				Rainfall (inches)								
Meadow Farm.	2.69	+0.47	2.64	2.07	5.59	1.91	0.93	5.44	2.07	4.73	4.92	1.96
South Road.	2.39	0.52	2.25	2.13	5.45	1.58	1.05	5.69	2.64	4.25	4.53	1.86
Dock Area.	2.17	0.34	2.37	1.65	5.16	1.44	0.77	3.35	2.11	3.23	1.86	1.81

++ - Considered gauge was disturbed during the month.

+++ - Results of doubtful value. Gauge appears to have been tampered with.

+ - On collecting the rain found some fouling of the bowl mainly outside.  
Possibly some solids may have been washed into bottle.

				Total solids (tons/Sq.mile).								
Meadow Farm.	7.51	10.10	7.69	10.72	10.58	3.86	4.97	10.71	7.01	8.34	4.73	5.35
South Road.	16.31	7.8	24.9	12.26	22.52	12.44	12.45	12.77	22.62	24.15	22.95	23.08
Dock Area.	24.82	20.28	29.44	31.23	25.75	22.5	32.06	34.73	45.01	23.29	106.1	25.1
				+ Possible gauge tampered with, seawater may have been added.								

				Sulphur by Lead Peroxide Method.								
				Weight of SO <sub>2</sub> in mgm. per 100 sq. cm. per day.								
South Road.	0.34	0.35	0.20	0.19	0.14	0.22	0.15	0.08	0.21	0.52	0.82	0.50
Down Road, Meadow Farm.	0.29	0.52	0.15	0.37	0.14	0.17	0.15	0.13	0.18	0.33	0.87	0.78
Dock Area.	0.87	0.73	1.13	0.19	0.36	0.71	0.42	0.51	0.71	1.29	1.06	0.96
Power Station.	0.34	0.56	0.32	0.31	0.33	0.10	0.09	0.17	0.27	0.63	0.77	NIL



PORTISHEAD - ATMOSPHERIC POLLUTION.

The following table gives details for the Years 1949 - 1952:-

		Portishead Dock.	Meadow Farm.	South Road.
(1)	1949	26.0	23.9	-
RAINFALL.	1950	35.7	36.1	-
	1951	30.8	36.7	29.4
	1952	26.3	35.4	34.3
(2)	1949	539	74	-
TOTAL SOLIDS.	1950	530	117	-
	1951	303	83	178
	1952	640 <sup>+</sup> (378)	92	214
(3)	1949	3.9	1.9	-
T A R.	1950	13.0	2.1	-
	1951	0.8	0.5	0.8
	1952	0.7	1.0	0.5

(1) Inches.

(2) Tons/sq.mile.

+ This figure includes the two very abnormal results which are of doubtful 640 value (see graph).

378 This figure is the total after substituting average values for the two doubtful results and is probably a figure much nearer the truth.

The amount of total solids (including suspended matter) in the Dock Area shows a slight increase (25%) on the amount for 1951, but the solids obtained at South Road and Meadow Farm also show slight increases, namely 20 and 11 per cent respectively. The pollution as shown by the solid matter present during 1952 was therefore of the same order as that for 1951 compared with the Meadow Farm area.

The amounts of tar present in the suspended matter in the three areas remained low and was comparable with those for the previous year.

Generally, the South Road area shows more pollution than that at Meadow Farm, but except for October, was always less than that in the Dock area.



Sulphur (mg. SO<sub>3</sub>/100 sq. cm/day).

Apart from the low figure for April the Dock Area has shown the largest monthly figures. In April it was lower than the figures for Down Road and the Power Station. The results show that with few exceptions the dock area is affected to the greatest extent.

	<u>Highest.</u>	<u>Lowest.</u>
Dock.	1.29 Oct.	0.19 April
Power Station.	0.77 Nov.	0.09 July
Down Road Meadow Farm.	0.87 Nov.	0.13 Aug.
South Road.	0.82 Nov.	0.08 aug.

July and August appear to be the best, and October to December the worst months.





TONS PER SQ. MILEPORTISHEAD - ATMOSPHERIC POLLUTION.Phosphate & Silica (tons per sq. mile)  
1952.

J. V.	FEB.	MARCH.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.
trace	0.07	0.17	0.13	0.33	0.08	0.15	0.14	0.47	0.33	0.33	0.42
7.97	7.73	12.63	10.25	7.17	8.81	13.18	11.85	Not avail- able.	6.04	8.25	7.72
trace	trace	0.02	0.04	0.07	0.03	0.05	0.09	0.04	0.06	0.03	0.02
0.03	0.03	0.06	0.03	0.05	0.05	0.04	0.08	Not avail- able.	0.04	trace	0.02
trace	0.17	0.09	0.08	0.18	trace	0.04	0.11	trace	trace	trace	0.08
0.58	2.16	1.84	4.22	1.74	0.32	0.58	1.74	5.21	Not avail- lable.	4.42	1.29
Nil.	0.19	0.10	0.07	0.06	0.03	0.01	0.06	0.03	0.05	0.08	0.02
0.01	0.02	0.005	0.03	0.04	0.01	0.01	0.04	0.02	Not available.	0.01	0.02
trace	0.03	0.09	0.13	0.35	0.05	0.07	0.14	trace	trace	0.18	0.10
0.25	Not available.	6.13	3.32	5.86	3.21	1.92	2.58	1.11	3.98	1.09	3.08
Nil.	trace	0.06	0.04	0.04	0.04	0.01	0.06	0.05	0.06	0.08	0.005
0.92	Not available.	0.04	0.06		0.06	0.04	0.04	0.04	0.07	0.02	0.03

Portishead Dock.  
(Soluble  $\text{SiO}_2$ )  
(Insol.  $\text{SiO}_2$ )  
(Soluble  $\text{P}_{205}$ )  
(Insol.  $\text{P}_{205}$ )  
  
Meadow Farm.  
(Soluble  $\text{SiO}_2$ )  
(Insol.  $\text{SiO}_2$ )  
(Soluble  $\text{P}_{205}$ )  
(Insol.  $\text{P}_{205}$ )  
  
South Road.  
(Soluble  $\text{SiO}_2$ )  
(Insol.  $\text{SiO}_2$ )  
(Soluble  $\text{P}_{205}$ )  
(Insol.  $\text{P}_{205}$ )



TONS PER SQ. MILE.

PORTISHEAD - ATMOSPHERIC POLLUTION.  
Phosphate & Silica (tons per sq. mile)  
(1951)

Copy

	JAN.	FEB.	MARCH.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.
{ Soluble SiO <sub>2</sub>	Nil.	Nil.	Nil.	0.20	Trace	Trace.	Trace.	Trace.	Nil.	Trace.	Nil.	Trace.
{ Insol. SiO <sub>2</sub>	18.4	10.38	14.18	13.21	2.46	3.78	16.79	11.17	5.57	2.46	4.94	7.66
{ Soluble P <sub>2</sub> O <sub>5</sub>	0.199	0.160	0.160	0.04	Trace	0.009	0.019	0.043	Nil	Nil	0.06	0.03
{ Insol. P <sub>2</sub> O <sub>5</sub>	Minute Trace.	0.07	0.09	0.04	0.04	0.01	0.05	0.02	0.04	0.04	0.01	0.05
{ Soluble SiO <sub>2</sub>	Nil.	Nil.	Nil.	Trace.	Nil.	Trace.	Trace.	Nil.	Nil.	Trace.	Nil.	Nil.
{ Insol. SiO <sub>2</sub>	0.46	1.06	1.74	1.07	1.16	0.68	1.09	0.79	0.31	1.17	0.71	0.62
{ Soluble P <sub>2</sub> O <sub>5</sub>	Nil	Nil	Minute Trace.	Trace	Nil.	0.06	Trace	Nil	Nil	Nil	0.02	Trace
{ Insol. P <sub>2</sub> O <sub>5</sub>	Nil	0.03	0.06	0.03	0.01	0.01	0.04	0.02	0.02	0.02	0.01	0.01
{ Soluble SiO <sub>2</sub>	Nil	Nil	Nil	-	Trace	Trace			Nil	0.09	Nil	Trace
{ Insol. SiO <sub>2</sub>	-	3.30	6.79	3.33	8.07	1.38			4.55	7.85	4.57	5.45
{ Soluble P <sub>2</sub> O <sub>5</sub>	Nil	0.108	0.144	-	0.096	0.016			Trace	Nil	0.05	Trace
{ Insol. P <sub>2</sub> O <sub>5</sub>	-	0.07	0.09	0.03	0.03	0.02	NOT AVAILABLE.	NOT AVAILABLE.	0.04	0.06	0.02	0.06

Portishead Docks.

Meadow Farm.

South Road.

